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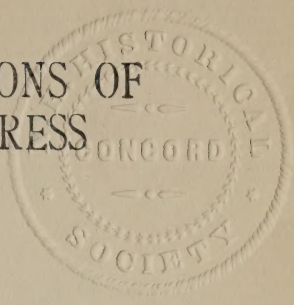

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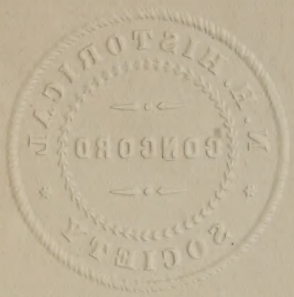

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THE UNIVERSITY OF CHICAGO DECENNIAL PUBLICATIONS

These volumes were planned in connection with the celebration of the completion of the first ten years of the educational work of the University of Chicago, the purpose being to set forth and exemplify the material and intellectual growth of the University during its first decade. The scheme includes a list of about twenty-five volumes, some of which are now ready and the others in an advanced stage of preparation. The publications will be issued in two series — the first series in quarto form, $8\frac{5}{8} \times 11\frac{1}{8}$ inches; the second in octavo, 6×9 inches.

First Series.—The first series will comprise ten volumes, of which the first two will contain the Reports of the President of the University to the Board of Trustees, and the last eight as many groups of scientific articles representing the work of research of the several departments. The groups are as follows: Systematic Theology, Church History, Practical Theology, Philosophy, Education; Political Economy, Political Science, History, Sociology; Semitic Languages and Literatures, Biblical and Patristic Greek, Comparative Religion; the Greek and Latin Languages and Literatures, Sanskrit and Indo-European Comparative Philology, Classical Archæology; the Romance, Germanic, and English Languages and Literatures; Astronomy and Astrophysics; Mathematics, Physics, Chemistry, Geology; Zoölogy, Anatomy, Physiology, Neurology, Botany, Pathology and Bacteriology, Palæontology. Many of the articles will be issued and circulated in separate form in advance of the volumes.

The contributions now ready and published in preprint form are as follows:

Credit (Vol. IV, No. 1)

By Dr. J. Laurence Laughlin, professor and head of the Department of Political Economy. The nature of credit and its effect on prices have long been a subject of disagreement among economists. Its basis is commonly assumed to be money, or bank reserves. Dr. Laughlin's study departs from the usual treatment by first showing that credit in its last analysis is always based on goods and not on money. Then he proposes a new classification into normal and abnormal credit, the former being no greater than, and the latter in excess of, saleable goods actually owned by the borrower. Abnormal credit is a synonym for overtrading. The outcome of the exposition in regard to credit and prices shows that normal credit has practically no effect on general prices. A steady enlargement of normal credit is constantly going on consistently with the legitimate fall of the general price-level. Abnormal credit, on the contrary, raises prices all around, but, because it is not based upon goods, but on a delusion, the rise of prices always results in a collapse as soon as the delusion is pricked. 28 pp., 4to, paper, *net*, 50 cents; postpaid, 53 cents.

The Physical Characters of the Indians of Southern Mexico (Vol. IV, No. 3)

By FREDERICK STARR. This contribution contains the results of physical examinations and measurements taken during the author's five-years' investigation upon the physical type of south Mexican Indians. In it the author first outlines the purpose and methods of the investigation; he then discusses several of the more important anthropological data, one after another, and considers their range, variation, and significance through the twenty-three tribes; lastly, each tribe is considered in detail, and its characters and type are defined. The work is handsomely illustrated with a series of portraits, in which at least one subject from each tribe is represented in front and profile views. A sketch map shows the geographical locations of the tribes investigated, and a color diagram is introduced. The work is the only serious study yet printed upon the anthropologically little known tribes of this region. 59 pp., 4to, with numerous illustrations and a color chart, paper, *net*, 75 cents; postpaid, 81 cents.

A Greek Hand-Mirror in the Art Institute of Chicago; and, A Cantharus from the Factory of Brygos in the Boston Museum of Fine Arts (Vol. VI, Nos. 1, 2)

By FRANK BIGELOW TARBELL. The first article of this contribution includes a description, accompanied by a half-tone illustration, of a Greek hand-mirror of the fifth century B. C., of unusual design and decorations, presented to the Chicago Art Institute by Martin A. Ryerson, Esq. The second article, which is accompanied by two heliotype plates, describes a fine vase acquired by the Boston Museum of Fine Arts. It is shown to belong to the school of Brygos, perhaps to Brygos himself, a ceramic artist of the early fifth century B. C. 11 pp., 4to, paper, *net*, 25 cents; postpaid, 27 cents.

The Meaning of ἐπὶ τῆς σκηνῆς in Writers of the Fourth Century (Vol. VI, No. 3)

By R. C. FLICKINGER.

The Proconsulate of Julius Agricola in Relation to History and to Encomium (Vol. VI, No. 4)

By GEORGE L. HENDRICKSON. Apart from the interpretation of single passages in the *Agricola* of Tacitus, the purpose of the paper is to illustrate in detail and to characterize the difference in literary treatment between biography and history.

On the Text of Chaucer's Parlement of Foules (Vol. VII, No. 1)

By ELEANOR PRESCOTT HAMMOND. In the course of a careful discussion of the genealogical relations and intrinsic worth of the existing manuscripts of this poem, it is shown that no text as yet printed is strictly critical and that the critical text will be found to contain metrical features which, if discovered in other reconstructions of Chaucerian originals, will compel a readjustment of current theories as to the poet's meter. It is demonstrated that the Cambridge manuscript hitherto so admired by editors is an untrustworthy authority, and that the archetype is more nearly reflected in the pair of manuscripts, Fairfax 16 and Bodley 638 of the Bodleian Library in Oxford. 25 pp., 4to, with diagrams, paper, *net*, 50 cents; postpaid, 53 cents.

The Treatment of Nature in the Works of Nikolaus Lenau. An Essay in Interpretation (Vol. VII, No. 2)

By CAMILLO VON KLENZE. This article presents a detailed study of the part which landscape plays in the letters and diaries in the poetical works of the Austrian poet Lenau. Comparison with contemporary poets like Byron, Shelley, Lamartine, Hugo, Tieck, Novalis, Heine, and others, proves him on the whole the most significant exponent of the "romantic" attitude toward nature. 83 pp., 4to, paper, *net*, 75 cents; postpaid, 82 cents.

Concerning the Modern German Relatives, Das and Was, in Clauses Dependent upon Substantivized Adjectives (Vol. VII, No. 3)

By STARR WILLARD CUTTING. This article presents an examination of the distribution and function of *das* (*welches*) and of *was* in the modern German relative after substantivized adjective antecedents, undertaken in the light of numerous examples selected from the writings of Hauptmann, Heyse, Keller, Meyer, Nietzsche, Knabe, Schopenhauer, Spielhagen, Sudermann, and Wildenbruch. 21 pp., 4to, paper, *net*, 25 cents; postpaid, 28 cents.

The Velocity of Light (Vol. IX, No. 1)

By ALBERT A. MICHELSON. Professor Michelson's researches on this subject have attracted wide attention among physicists. Following the line of his early experiments, he now describes a new method by which the velocity of light, the accurate determination of which is of such great importance in physical and astronomical research, may be measured with a very narrow margin of error. 9 pp., 4to, paper, with illustrations, *net*, 25 cents; postpaid, 27 cents.

Concerning the Geodesic Curvature and the Isoperimetric Problem on a Given Surface; and, Proof of the Sufficiency of Jacobi's Condition for a Permanent Sign of the Second Variation in the So-called Isoperimetric Problem (Vol. IX, Nos. 2, 3)

By OSKAR BOLZA. The preprint includes two articles. The first gives a new proof of the well-known theorem that the closed curve of given length drawn on a given surface which incloses a portion of the surface of maximum area is a curve of constant geodesic curvature. The second article gives a simple proof of the sufficiency of Legendre's and Jacobi's conditions for a permanent sign of the second variation in the simplest type of isoperimetric problems in parameter representation. 8 pp. and 7 pp., 4to; bound together, paper, *net*, 25 cents; postpaid, 27 cents.

On the Production and Suppression of Muscular Twitchings and Hypersenitiveness of the Skin by Electrolytes (Vol. X, No. 1)

By JACQUES LOEB. In this article Dr. Loeb continues his investigations dealing with the determination of electrolytes which are liable to produce and inhibit hyperactivity of muscles and hypersensitiveness of the nerves of the skin, the endeavor being to answer the question whether or not the stimulating and inhibiting effects of ions are a function of their valency and electrical charge. The experiments herein described have a practical bearing on the treatment of certain diseases. 13 pp., 4to, paper, *net*, 25 cents; postpaid, 27 cents.

On a Formula for Determining the Weight of the Central Nervous System of the Frog from the Weight and Length of the Entire Body (Vol. X, No. 2)

By HENRY H. DONALDSON. This investigation shows that in the frog the weight of the brain and spinal cord combined can be expressed by a simple formula which is based on the weight of the entire body and its length. It thus appears that the weight of the central nervous system in the frog always bears a definite relation to the entire animal, and therefore, when the length of the frog and its body-weight are known, it is possible to calculate the weight of the central nervous system by the use of the formula which is given. 15 pp., 4to, paper, *net*, 25 cents; postpaid, 27 cents.

Amorphous Sulphur and its Relation to the Freezing-Point of Liquid Sulphur (Vol. IX, No. 6)

By ALEXANDER SMITH, with the collaboration of WILLIS B. HOLMES. The chief results of this investigation are: (1) A fairly accurate method of analyzing mixtures of

amorphous and soluble sulphur has been worked out. (2) The freezing-point of pure liquid sulphur is found to be 119.25°. (3) The freezing-point of pure melted sulphur is shown to depend solely upon the quantity of amorphous sulphur which it contains, and to be depressed below 119.25° proportionately to the amount of the latter. (4) The molecular weight of amorphous sulphur in solution is found to be S_8. (5) Amorphous sulphur is thus an isomer of soluble sulphur and exists in chemical equilibrium with liquid soluble sulphur whose molecular weight is unknown. The influence of foreign substances on the rate of formation of amorphous sulphur, the quantities of the latter existing at various temperatures when equilibrium has been reached, and the whole behavior of fluid sulphur are being investigated.

Among other contributions in preparation are to be mentioned the following:

Have We a Likeness of Christ? The Testimony of Early Christian Art (Vol. III, No. 1)

By FRANKLIN JOHNSON. This article is a detailed refutation of the view that is widely held that the representations of Christ in early Christian art go back to a painter contemporary with Christ. The argument is illustrated by sixteen half-tone cuts. 16 pp., 4to, paper, *net*, 25 cents; postpaid, 27 cents.

The Significance of Sociology for Ethics (Vol. IV, No. 4)

By ALBION W. SMALL.

Practical Sociology in the Service of Social Ethics (Vol. III, No. 2)

By CHARLES R. HENDERSON. This essay attempts to evidence that there is need for a mediating scientific discipline between explanatory social science and the traditional outlines of conduct in works on ethics; and to indicate how far sociologists have already gone in this direction "social technology" is suggested as the most exact designation for this branch of investigation. Evidence that such a discipline is legitimate is derived from Aristotle and from the latest ethical writers. That this discipline may be made truly scientific, and should be distinguished from "art," is urged in connection with a criticism of passages in Mill's *Logic*. That encouraging results have already been obtained is shown by references to the literature of practical economics and to bodies of regulative principles in various large fields of conduct.

Greek Papyri from the Cairo Museum (Vol. V, No. 1)

By EDGAR J. GOODSPEED. This contribution presents forty documents and literary fragments, constituting the first representative selection of Greek papyri to appear in America. All the periods of Greek papyri—Ptolemaic, Roman, and Byzantine—are represented, the pieces being taken from the collections of the Cairo Museum, Westminster College, Field Columbian Museum, and the private collection of the editor. The texts are accompanied by introductions and notes, and translations are appended to the more technical or extensive ones.

A Stichometric Scholium to the Medea of Euripides, with Remarks on the Text of Didymus (Vol. VI, No. 5)

By TENNY FRANK. A certain line occurs twice in the *Medea* of Euripides and is cited in a third place by Didymus, according to a scholium the exactness of which has been questioned. Now a second scholium, which has hitherto been misunderstood because of a corruption, when emended supplies the stichometrical data, which prove to be of service in clearing away the confusion and in establishing an early text of the *Medea*.

Preliminary Notes on Two Old Spanish Versions of the Disticha Catonis (Vol. VII, No. 4)

By CARL PIETSCH.

The Espurgatoire Saint Patriz of Marie de France (Vol. VII, No. 5)

By T. ATKINSON JENKINS. The Latin text of the *Tractatus de Purgatorio sancit Patricii* contained in the Harleyan manuscript 3846 is printed for the first time, accompanied in parallel columns by the old French metrical translation of Marie de France, made at the end of the twelfth century. The precise version used by Marie de France has not been found; the Harleyan manuscript represents this version more completely and better than any manuscript yet made accessible. The French text has been improved materially by this comparison with the Latin original. The text of the Tractatus from another British Museum manuscript (Royal 13 B VIII) is printed in full as an appendix.

Measures of Double Stars with the 40-Inch Refractor of the Yerkes Orservatory in 1900 and 1901 (Vol. VIII, No. 1)

By S. W. BURNHAM.

Micrometrical Observations of Eros Made with the 40-Inch Refractor of the Yerkes Observatory During the Opposition of 1900-1901 (Vol. VIII, No. 2)

By E. E. BARNARD. The favorable position of the minor planet Eros for observation in 1900 was taken advantage of for a redetermination of the sun's distance. An observation program was arranged so that the astronomers in America could co-operate with those of Europe in making simultaneous measures of the position of the planet upon the face of the sky. The minuteness of Eros and the peculiarities of its orbit make observations of it the most accurate method of all for the determination of the sun's parallax. The larger observatories in this country undertook the work of observing the planet while it was nearest in October, November, and December of 1900. The observations at the Yerkes Observatory were made on seventy-three nights with the great telescope, and over one thousand five hundred measures of right ascensions and declinations were obtained. The positions of the comparison stars used in these measures are now being accurately determined in Europe. A large number of determinations of the brightness of the planet was also made during the observations with the great telescope. These will be useful in investigations of the variability of the light of Eros which occurred during the observations of the planet. The paper for the Decennial Publications contains the measures of position and the observations for the brightness of the planet.

Ternary Orthogonal Group in a General Field (Vol. IX, No. 4)

By LEONARD EUGENE DICKSON. An investigation for an arbitrary field (realm of rationality) of a subject previously treated for a continuous field by Weber, and for a Galois field by the writer.

Groups Defined for a General Field by the Rotation Groups (Vol. IX, No. 5)

By LEONARD EUGENE DICKSON. A contribution to the theory of group-determinants and group-characters due to Frobenius and Burnside for continuous fields, and to the writer for arbitrary fields.

The Artificial Production of Spores in Monas by a Reduction of the Temperature (Vol. X, No. 3)

By ARTHUR W. GREELEY.

The Development of the Colors and Color Patterns of Coleoptera, with Observations upon the Development of Colors in Other Orders of Insects (Vol. X, No. 4)

By WILLIAM LAWRENCE TOWER.

The Structure of the Glands of Brunner (Vol. X, No. 5)

By R. R. BENSLEY. The glands of Brunner should be regarded as mucus-secreting glands for the following reasons: (1) the absence of the cytological characters which are now recognized as the principal features of the structure of the serous cell (basal filaments of Solger, granules of zymogen, etc.); (2) the structural similarity to the cells of other mucous glands in corresponding phases of secretion; (3) the staining reactions. The failure of von Ebner and others to obtain a mucin reaction in the contents of the secreting cells of the glands of Brunner by the use of Mayer's solutions, muchæmatein and mucicarmine, is probably due to too close an adherence to the original formulæ of Mayer, who expressly states that his solutions stain some mucins readily, others slightly or not at all. The writer has found that the range of positive results with these stains may be greatly extended by increasing the strength of the solutions employed. For example, a solution containing 1 g. of hæmatein, .5 g. of aluminium chloride, and 100 c.c. of 70 per cent. alcohol has given an intense coloration of the secretory contents of the cells of the glands of Brunner, without regard to their source or to the method employed for fixation. The question of the similarity of the glands of Brunner to the pyloric glands is discussed from the standpoint of the relative specialization of the stomach in different genera, and an attempt is made to show that the great differences between these two groups of glands observed in some mammals are not primary but secondary in character, and owe their origin to the fact that the pyloric glands have been subjected to the action of the factors which have produced the specialization, to which factors the glands of Brunner, owing to their position in the tela submucosa, are not exposed. Accordingly, the differences are slight in animals in which the stomach has retained the primitive type, *e. g.*, Didelphis, very great in animals in which the stomach has reached a high degree of specialization, *e. g.*, Fiber. Finally, the bearing of the facts of structure, distribution, and histogenesis on the question of the phylogeny of the glands of Brunner, and on the theory of the respective specificity of the epithelia of the stomach and intestines, is discussed.

The Animal Ecology of the Cold Spring Harbor Sand Spit, with Remarks on the Theory of Adaptation (Vol. X, No. 5)

By CHARLES B. DAVENPORT. The sand spit at Cold Spring Harbor is microcosm where marine and terrestrial species come together. The marine organisms contribute flotsam and jetsam to the upper beach, so that the line of débris just above the high-tide line is rich in organic matter, both plant and animal. This line of débris, renewed twice each day, is the feeding-ground of a remarkable fauna. Here lives, in a terrestrial habitat, a marine species of amphipod, and in the same situation are found numerous terrestrial species, such as ants, flies, and beetles. These scavengers, in turn, invite a number of predaceous creatures — spiders, robber-flies, and tiger beetles. Finally these are preyed upon by the swallows. At the tip of the sand spit live certain species that depend upon the currents to bring them their food. These, like the other creatures, are adapted to their environment. The adaptation has been in part brought about by a segregation of individuals into the environment to which their structure fits them.

The Finer Structures of the Neurones in the Nervous System of the White Rat (Vol. X, No. 6)

By SHINKISHI HATAI. This article describes mainly the finer structure of the axones and dendrites of various forms of neurones as well as the intimate anatomical relations existing between the two processes just mentioned. In addition, the finer structure of the ground substance in the nerve cell bodies is discussed. The observations were made on material which was fixed and stained with reagents devised by the author.

Second Series.—The volumes of the second series, which are either ready or in advanced stages of preparation, are as follows:

The Life and Repentaunce of Marie Magdalene

Edited, with an Introduction, Notes, and Glossarial Index, by FREDERIC IVES CARPENTER. During the last quarter-century the rapidly growing interest in the history of the drama and English literary history in general has led to the reproduction in modern form of most of the English dramas of the Elizabethan age, so that only a small number remain to be edited and reprinted. Among the few remaining is *The Life and Repentaunce of Marie Magdalene*, a sixteenth-century morality-play by Lewis Wager, now for the first time reprinted and provided with editorial apparatus. This play, which has been strangely overlooked by such editors as Collier, Hazlitt, Bullen, and others, is especially interesting as continuing the literary treatment of the Magdalen legend and occupying a unique position in the history of the drama in presenting a mixture of type—morality, historical, and biblical—scarcely met with elsewhere. Pp. xxxii + 91, 8vo, cloth, *net*, $1.00; postpaid, $1.08.

The Second Bank of the United States

By RALPH H. C. CATTERALL. A history of the second Bank of the United States, treating at length both the monetary and political questions connected with that institution. Thus the book deals not only with the political events of the Bank War, but also with the subjects of branch drafts, the bank as a government agency, and the bank's control of state banks and of currency. In addition to the material secured from ordinary sources, the author has had access to the manuscript papers of Nicholas Biddle, including an enormous mass of letters from prominent individuals in relation to the bank, as well as the letter-books of President Biddle himself. From these sources much new light is thrown upon the events immediately preceding the application in 1832 for a renewal of the charter, the struggle which followed, Biddle's management of the bank, and his opinions relative to the bank's attitude on political matters. About 550 pp., 8vo, cloth, *net*, about $2.00; postpaid, about $2.25.

The Poems of Anne, Countess of Winchilsea

Edited, with Introduction and Notes, by MYRA REYNOLDS. The Countess of Winchilsea wrote during the years 1680–1720. A portion of her work appeared in 1713, in a volume now quite rare. Her unpublished poems are in two manuscripts, one in the possession of the Earl of Winchilsea and the other in that of Mr. Edmund Gosse. Miss Reynolds's volume contains all the available extant work of Lady Winchilsea. An important feature is the biographical sketch compiled from original sources which appears in the Introduction, pointing out in detail the characteristics in which her poems were not in harmony with contemporary tendencies. About cl + 350 pp., 8vo, cloth, *net*, about $2.50; postpaid, about $2.95.

Light Waves and Their Uses

By ALBERT A. MICHELSON. This book contains a course of eight lectures delivered before the Lowell Institute at Boston in the year 1899. In these lectures the results of the investigations with which Professor Michelson has been engaged for the last twenty years are presented in language as free from technicality as possible. The first chapter contains a discussion of wave motion, and shows that the most important characteristic of waves is their ability to produce interference phenomena. The other lectures deal with the methods which have been devised for making use of the interference of the waves of light in the production of a natural standard of length, in analyzing the vibrations which a source of light emits, and in measuring extremely minute distances and angles. These lectures are now for the first time rendered accessible to the public at large. They contain much information about the light waves which is to be found only in scientific periodicals. The subject is presented in such simple form that comparatively little training is needed to enable one to comprehend the essential facts and fundamental principles involved. One hundred and thirty drawings illustrate the text. About 200 pp., 8vo, cloth, *net*, about $2.00; postpaid, about $2.15.

The Rôle of Diffusion and Osmotic Pressure in Plants

By BURTON E. LIVINGSTON. The fundamental importance of osmotic phenomena in organic life has long led teachers to feel the need of a treatise on this subject at once thorough and concise, such that it might be used by students whose knowledge of chemistry and physics is only elementary. The first part of the publication supplies this demand. In the second part the author has presented the present status of knowledge with regard to the osmotic occurrences in plants. Here thoroughness and completeness have not been sacrificed to conciseness, but the two have been so brought together that this part should be valuable, not only to the beginning student who wishes to acquaint himself with the nature of the absorption and transmission in plants, but also to the advanced student who desires a bibliography of physiological osmosis and diffusion. About 150 pp., 8vo, cloth, *net*, about $2.00; postpaid, about $2.15.

Assyrian and Babylonian Letters Belonging to the Kouyunjik Collection of the British Museum

Edited by ROBERT FRANCIS HARPER. The eighth volume of Professor Harper's *Corpus of Assyrian and Babylonian Letter Literature*, which was begun in 1892, will appear as a number of the Decennial Series, the preceding seven volumes having also been issued by The University of Chicago Press. The work of which this volume forms a part includes the text of over eight hundred letters, most of which have been deciphered and published for the first time by the present editor. Just one hundred years ago the beginning was made by Grotefend of deciphering the strange cuneiform characters of the language of Assyria and Babylonia. By extraordinary perseverance, learning, and acumen a succession of scholars have completely solved the puzzle, and the extensive documents of the ancient civilization of Mesopotamia are now an open book to historians. Unique among these documents are the letters written upon clay tablets which have been unearthed in large numbers on various sites. This volume is preceded by a general introduction by Professor Harper to the letter literature as a whole, designed to give the student and general reader a fair idea of the importance of this class of inscriptions for the student of history, private and public life, diplomacy, warfare, and language. 8vo, cloth, *net*, $6; postpaid, $6.12.

Legal Tender: A Study in English and American Monetary History

By SOPHONISBA P. BRECKINRIDGE. The object of this study is to present the history of the exercise of the legal-tender power by the governments of England and of the United States. The idea of legal tender is primarily a legal idea. In order that the relations of debtor and creditor may have a due degree of certainty, it is essential that certain money units in common use shall carry with them the right to use them in canceling obligations growing out of contracts. The purpose of bestowing this right is, then, a legal purpose. But the right is often conferred for other reasons than the legal one—from political and economic reasons. A review of the forms in which the power to bestow the right has been exercised, of the reasons which have prevailed, of the constitutional and political considerations involved, is here presented as a basis for the solution of economic problems connected with the subject, and dependent for their right understanding upon such consideration.

Among the other volumes of the second series to be ready during the autumn and winter months are to be mentioned the following:

Studies in Logical Theory

Edited by JOHN DEWEY. As is indicated by the title of this volume, the book undertakes a series of critical and constructive studies in logic along the lines of the recent work of such authors as Bradley, Bosanquet, Lotze, and Sigwart, as well as Mill and some of the earlier English writers. Among the contributors, besides the editor, are Dr. MacLennan, of Oberlin College; Dr. Stuart, of the State University

of Iowa; Dr. Helen Thompson, of Mount Holyoke College; Drs. Moore and Ashley, of the University of Chicago, etc. The volume represents the first fruits given to the public of the investigations carried on continuously in the Graduate School of the University during the last eight years.

A History of the Greenbacks, with Special Reference to the Economic Consequences of Their Issue

By WESLEY CLAIR MITCHELL. The experience of the United States with the green backs is of peculiar interest from both the historical and economic points of view This monograph treats the subject from both points of view, the first part being devoted to the study of the chain of events which led up to the issue of the paper money, and the second part tracing in detail the effects of the desertion of a metallic for a paper standard. The elaborate chapter on wages includes a detailed analysis of the Aldrich Report in comparison with the hitherto almost unused material by Mr. J. D. Weeks in Vol. XX of the Census of 1880. An interesting feature is the incidental statistical demonstration of an element of truth in the much-despised subsistence theory of wages. Similar studies on rent, interest, and profits are followed by a chapter upon "The Greenbacks and the Cost of the Civil War," showing to what degree the paper issues increased the expense incurred by the government in carrying on the struggle.

La Perfecta Casada

Edited by ELIZABETH WALLACE. This volume is a reprint of the third edition (1587) of the most popular prose work of Fray Luis de Leon, with variants of the first edition, and introductory notes. The present edition possesses a distinct advantage over the former ones, which have all been in a form inconvenient for the student of the sixteenth century Spanish and often subject to embarrassing inaccuracies. The text is reprinted from one which was corrected and revised by de Leon and forms an excellent basis for the study of the style and language of the great master of Spanish prose.

Studies in General Physiology

By JACQUES LOEB. This volume will contain some of the author's principal papers on the subjects of animal tropisms, heteromorphosis and artificial transformation of organs, artificial parthenogenesis, physiological effects of ions, the effects of lack of oxygen, function of cell nucleus, etc. These papers have appeared in scattered German periodicals or as separate publications in German, and many of them are now out of print or inaccessible. It is believed that physiologists, biologists, and physicians will be interested in having these investigations gathered together in one volume in English.

Lectures on Calculus of Variations

By OSKAR BOLZA. This treatise is, in substance, a reproduction in considerably extended form of a series of lectures delivered by the author at the Colloquiam held in connection with the summer meeting of the American Mathematical Society at Ithaca, N. Y., in August, 1901. It gives a detailed account of the typical and most important class of problems in the calculus of variations — in which an integral depending upon a plane curve and containing no higher but the first derivatives of the unknown functions is to be maximized or minimized — with special emphasis upon the progress of the theory during the last twenty-five years. The following topics are treated: (1) the older theory of the first and second variation from Euler to Jacobi, and the critical revision of its foundations and demonstrations by Du-Bois-Reymond, Scheeffer, Weierstrass, and others; (2) Weierstrass's theory: the proplem in parameter-representation, the fourth necessary condition; sufficient conditions; (3) simplifications and extensions of Weierstrass's theory, especially by Kneser and Hilbert; (4) the so-called isoperimetric problems; (5) Hilbert's existence theorems.

SPECIAL BOOKS

Among other announcements for immediate publication are the following:

The Diary and Correspondence of Wilhelm Müller

By PHILIP S. ALLEN, of the Germanic Department of the University of Chicago, and JAMES TAFT HATFIELD, of the Germanic Department of the Northwestern University. Wilhelm Müller, father of Dr. Max Müller, of Oxford, was one of the most pleasing lyricists of the nineteenth century and a conspicuous member of the later romantic school in Germany. The diary, hitherto unpublished, is an intimate and detailed account of Müller's life and thoughts from his twenty-first birthday, August 7, 1815, until the close of the following year, and in it there is found a naïve discussion of his idealistic beliefs. The letters were written by the poet to his wife during the early years of their marriage, and throw interesting sidelights upon the talented literary and musical society of Dresden and Berlin, where Müller was always a welcome guest. In view of the fact that the library and personal papers of Wilhelm Müller were all destroyed by fire many years ago, it is probable that no other intimate record of the poet's activity or artistic striving will ever be published.

The Place of Industry in Elementary Education

By KATHARINE ELIZABETH DOPP. This book aims to bring to the problems of elementary education the results of research in the department of sociology, anthropology, and history on the one hand, and the department of education on the other. After a brief survey of the educational situation, attention is given to (1) the social and educational significance of the industrial epochs that have characterized human progress from the most remote times to the present; (2) the origin of attitudes that underlie activity, and the changes that take place in attitudes in the development of the individual and the race; (3) the principles of service in the interpretation of the attitudes of the child and in the selection of materials for the course of study; and (4) practical application of the ideas above set forth to problems of the elementary school. The appearance of this book is timely, coming in response to a very general demand for some principle by means of which to evaluate the various forms of industry that are being introduced into the elementary school with reference to other factors in education. Although written from the point of view of scientific research, it is sufficiently concrete and popular in style to be serviceable in normal schools, reading circles, and women's clubs.

A Quantitative Chemico-Mineralogical Classification and a Nomenclature of Igneous Rocks

By WHITMAN CROSS, JOSEPH P. IDDINGS, LOUIS V. PRISSON, and HENRY L. WASHINGTON; with an introductory review of the "Development of Systematic Petrography in the Nineteenth Century," by WHITMAN CROSS. This book contains a critical review of the various systems of petrographic classification that have appeared in the nineteenth century, which forms a historical introduction to the new system of quantitative classification and the nomenclature proposed by Messrs. Cross, Iddings, Prisson, and Washington. The authors propose a simplified classification and nomenclature of igneous rocks for use in the field and for those who are not petrographers. This is based wholly on megascopic rock characters, and is virtually a restoration of the earliest system in vogue with the founders of the science. Methods of calculating mineral composition from the chemical composition of rocks, and the reverse, with tables to aid the operation, are set forth at length. There is also a glossary of new terms employed by the authors.

The Kingdom of God in the Writings of the Fathers

By H. M. HERRICK. This work is based upon an investigation of the Christian writings of the patristic age, from Clement of Rome at the close of the first century to John of Damascus in the middle of the eighth. It endeavors to answer the following ques-

tions: What was understood by the kingdom of God in the early Christian centuries? To what extent was the New Testament usage of this expression followed, and wherein was it departed from? Did the Fathers on the whole preserve the great idea of the kingdom of God and hand it down, or did they lose it? The use of the expression "the kingdom of God" by Jesus and the apostles, as the starting-point of this book, is the subject of the introductory chapter. The views of the Fathers in groups of Greek and Latin are then given in chronological order, according to the periods of church history. Above five hundred quotations from the Fathers concerning the kingdom are given; and in Part II a topical outline of their chief ideas on this theme, together with tables showing the distribution of these references in their works, including their use of the Scripture. A general index at the close locates nearly four thousand references to the kingdom of God in the patristic writings. Many of the best thoughts of the early centuries cluster around this theme, scattered throughout the whole range of the literature; and possibly no other theme is more suggestive as a key to primitive views of Christianity.

Psychological Norms in Men and Women

By HELEN BRADFORD THOMPSON. This volume is distinguished from all previous works on the mental characteristics of sex in that it is founded on actual experiments, and can therefore base its statements, not merely on opinion, or on inconclusive deductions from anatomy and physiology, but on fact. The experiments which furnish the basis for the work were carried out in the psychological laboratory of the University of Chicago on university students of the junior and senior years, and of the first year of graduate work. These tests cover the various senses, motor ability, intellectual processes, and affective processes. The work contains also a comparison of the results with those of any similar tests made by other observers. The last chapter comprises a general summary of the experimental facts collected, and a discussion of the results with reference to the modern biological theory of sex. The final conclusion reached is that the sexual differences discovered are very slight, and are of such a nature that they can be adequately explained by the existing differences of training and social surroundings without appeal to any real psychological differences of sex.

The Recovery and Restatement of the Gospel

By LORAN D. OSBORN. The title of this book, as expressed in the sentences of the introduction, is "to show that the gospel of Jesus has become obscured during the process of its historical development, and that it is, therefore, necessary to go back of this process in order to recover the gospel that he taught; and, inasmuch as the world's culture has radically changed during the centuries since Christianity received its first dogmatic expression, this recovered gospel needs restatement in terms of modern thought and life." The work tells the history of the early transformation of the gospel as it came in contact with its early environment. The movement is traced down through its various stages of development with special reference to the Lutheran Reformation and the theological obscuration of the gospel in the Protestant creeds of the sixteenth and seventeenth centuries, with results which show that radical changes have taken place in the gospel as preached by Jesus in Nazareth. The work shows further that the new Bible-study movement of the century has done much to bring Christianity back to its original sources, and with a result of a clearer understanding of the gospel of Jesus than any other age has possessed. Throughout the whole book the author emphasizes the loyalty to Jesus Christ as a governing position in Christian thinking.

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